

## CLAIMS

## WHAT IS CLAIMED IS:

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1. Mobile lifting device comprising:
- a) a supporting carriage which is capable of travelling along a specific path;
- b) a lifting platform for receiving a load;
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- c) a hoisting apparatus which has at least two traction means and with the aid of which the lifting platform can be moved with a vertical component of direction in relation to the supporting carriage;
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- d) a stabilising apparatus which prevents an uncontrolled lateral movement of the lifting platform in relation to the supporting carriage,
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- e) wherein the stabilising apparatus is formed by at least one, essentially rigid pivoting member which is swivellably connected, in one end region, to the supporting carriage and, in an opposed end region, to the lifting platform in such a way that, when the
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- supporting carriage is stationary, a movement of the platform that possesses a vertical component of direction is always linked with a defined horizontal movement.
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2. Lifting device according to claim 1, wherein the lifting platform has an essentially rectangular base frame, to which two traction means in each case are fastened on opposite, parallel sides of the rectangle.
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3. Lifting device according to claim 2, wherein fastened to the base frame are a number of downwardly extending

retaining struts to which a load can be detachably fastened.

- 5        4. Lifting device according to claim 1, wherein a control system is provided, to which a signal which is representative of the vertical position of the lifting platform is fed and which moves the supporting carriage horizontally, in accordance with the signal, in such a way that the horizontal movement which is linked with the vertical movement of the lifting platform is, at least partially, compensated for.
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- 15        5. Lifting device according to claim 1, wherein the supporting carriage includes a drive for translational movement.
- 20        6. Lifting device according to claim 1, wherein the supporting carriage is provided with coupling means by which the supporting carriage can be coupled to an external conveyer system.
- 25        7. Lifting device according to claim 1, wherein the traction means comprise a plurality of cables.
8. Lifting device according to claim 1, wherein the traction means comprise chains.